

*Appl. No.: 10/823,288*

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### ABSTRACT

The present invention provides a light emitting device comprising: a light output; a light source that produces light having a wavelength of 530 nm or less; and a wavelength transformer located between the light source and the light output, where the wavelength transformer comprises  $\text{Sr}_{1-x}\text{Ca}_x\text{Ga}_2\text{S}_4:y\text{Eu}^{2+}\cdot z\text{Ga}_2\text{S}_3$ , where  $x$  is 0.0001 to 1,  $y$  is a value defining sufficient  $\text{Eu}^{2+}$  to provide luminescent emission, and  $z$  is 0.0001 to 0.2 based on the mole amount of  $\text{Sr}_x\text{Ca}_{1-x}\text{Ga}_2\text{S}_4$ , and where the wavelength transformer effectively increases the light at the light output, the light having a wavelength between 535 nm and 560 nm.